

CLAIMS

1. - Assembly for packaging and distribution of a liquid product comprising:

- a receptacle (20; ...; 620), intended to contain the product;

5 - a distribution head (10; ...; 610), fitted to the receptacle, comprising at least one nipple (40; ...; 440) with a distribution orifice (42; ...; 642) able to communicate with the interior of the receptacle;

- a capsule (30; ...; 630) comprising at least one window (39; ...; 639) delimited by an edge extending at least in part in a plane (P);

10 the capsule being movable in relation to the nipple between a closed position in which the distribution orifice is at least partly opposite a portion of the capsule extending away from the window and an open position in which the distribution orifice :

i) is located externally to the capsule, at a distance not equal to zero from
15 said plane (P), and/or

ii) emerges via a flexible membrane (50; ...; 550) fitted to said window, via at least one slit (52; ...; 552).

2. – Assembly according to claim 1, characterised in that the flexible membrane (50; ...; 550) is created in an elastically deformable material, in particular an elastomer.

20 3. – Assembly according to claim 2, characterised in that the elastomer material is chosen from the group of elastomers comprising propylene/ethylene copolymers; blocamide polyethers; polyvinyls; ethylene, propylene and diene (EPDM) terpolymers; styrene-butadiene sequenced (SBS) polymers; styrene-ethylene-butadiene sequenced (SEBS-SIS) polymers; thermoplastic polyurethanes; mixtures of polypropylene and one of the following elastomers: styrene-ethylene-butadiene sequenced (SEBS-SIS) polymers; ethylene, propylene and diene (EPDM) terpolymers; styrene-butadiene sequenced (SBS) polymers.

4. – Assembly according to any of the above claims, characterised in that the membrane (50; ...; 550) is obtained by moulding starting with a single piece with the capsule, in particular by bi-injection.
5. – Assembly according to any of claims 1 to 3, characterised in that the membrane (50; ...; 550) is an attached part fixed to the capsule, in particular by gluing, clamping, welding or riveting.
6. – Assembly according to any of the above claims, characterised in that the slit (52; ...; 552) is delimited by edges (52a, 52b; ...; 552a, 552b) that are more or less butt-jointed in the closed position.
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7. – Assembly according to any of the above claims, characterised in that the capsule (530) is mobile in translation in relation to the nipple.
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8. – Assembly according to any of claims 1 to 7, characterised in that the capsule (30; ...; 430; 630) is mobile in rotation in relation to the nipple.
9. – Assembly according to any of the above claims, characterised in that it comprises at least two nipples (140, 140') each having a distribution orifice (142, 142') of different cross-section.
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10. – Assembly according to any of the above claims, characterised in that in the closed position the nipple (40; ...; 640) comes to rest on an internal surface of the capsule so that said surface closes off the distribution orifice.
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11. – Assembly according to any of the above claims, characterised in that the capsule (30; 130; 230; 530; 630) comprises a sealing device (34; 134; 234; 534; 634) provided in order, in the closed position, to interrupt the communication between the distribution orifice and the interior of the receptacle.
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12. – Assembly according to any of the above claims, characterised in that the receptacle (20; 420) terminates in an open neck (323; 423) on which the distribution head is mounted, in particular by screwing or snap-fastening.

5 13. – Assembly according to any of claims 1 to 11, characterised in that the receptacle terminates by an open neck (23; 123; 223; 523; 623) in which the nipple is formed (40; 140; 240; 540; 640).

10 14. – Assembly according to any of the above claims, characterised in that the receptacle (20; ...; 620) comprises a deformable wall.

15 15. – Use of an assembly according to any of the above claims for the packaging and distribution of a cosmetic product, in particular a care product or a hair product.